Initials _____ CSSE 132

$\begin{array}{c} {\tt CSSE} \ \ 132-Introduction \ to \ Systems \ Programming \\ {\tt Rose-Hulman \ Institute \ of \ Technology} \end{array}$

SOLUTIONS To Exam 1 Practice Coding Part

Name (Print):	RHIT Username:
This part of the two-part exam is closed book , but acceptable sources:	ut you are allowed to use only these
 Your computer Your assignments and labs submitted in your in The CSSE 132 course website and things directly 	·
You are not allowed to use:	
 Other Internet resources, instant messaging. Your smartphone, or other communication mean Any modern integrated development environment 	
Using these resources is considered academic dishones	ety and will result in a penalty grade.
Your tasks for this coding part are described o	on the back of this page.
IMPORTANT: When you are finished with this part of	of the exam:
 Submit any files you created or modified to Gra Read and sign this paper below. Give this paper to your instructor. 	deScope.
I attest that all of my code for this exam is submitted exam from any source other than the acceptable source	
Your Signature:	Date:

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IMPORTANT: Using any functions that have not been explicitly taught in this class will result in a zero grade for the involved part(s).

First: Type git pull in your Git repo to fetch the exam code. Look for files in the exam1practice directory.

Problem 1 (6 pts) In your repository, change to the exam1practice/problem1 directory. Then issue this command:

head -n 18 nappy/bawdy/data | tail -n 9 | head -n 1

Write the output: 28900

Change to the exam1practice/problem1 directory again, and go in to keelhaul, then change to the selfish directory.

Write a *command-line expression* that, when run in the **selfish** directory, will print only the 10-th line of the data file.

Hint: this command-line expression should print out 25025

Your command-line expression: head -n 10 data | tail -n 1

Problem 2 (4 pts) Go to the problem2 directory. Check in the numbers.txt file for the only line that begins with 1154 (not the 1154-th line). Write the entire line in the space below.

Write the result:

11548

Problem 3 (45 pts) On your Linux, go to the problem3 directory.

- Complete the ARM assembly functions in problems.s Run make to compile and run make run to run the test.
- Complete the C functions in problems.c Run make to compile and run ./test to run the test.